

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

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GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

10/18/2011

Michael Murawski  
Assistant District Attorney, Suffolk County

Dear ADA Murawski,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Lisa Glazer.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC analytical data for sample # [REDACTED]
6. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Lisa Glazer was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Annie Dookhan'.

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)  
GLP/GMP training with Massachusetts Biologic Laboratory.  
QC/QA training according to FDA Codes and Regulations.  
GC and GC/MS trainings with Agilent Technologies and Restek.  
HPLC and LC/MS/MS trainings with Waters Cooperation.  
FTIR training with Spectros.  
TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Lisa A. Glazer

### Education

**Bachelor of Science Degree, CHEMISTRY January 2006**

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

**Bachelor of Science Degree, FORENSIC SCIENCE January 2006**

UNIVERSITY OF NEW HAVEN

Coursework included: Organic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus, Biology, Criminal Justice and Forensic Science courses

### Employment

**Chemist I, II State Laboratory Institute (May 2007-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2007.

**Laboratory Technician I (August 2006 – May 2007)**

University of Connecticut Chemistry Department - Storrs, CT

- Prepared unknowns, chemical reagents and supplies for undergraduate chemistry courses
- Set-up experiment demonstrations
- Properly disposed of hazardous waste from the experiments
- Made sure labs were being conducted safely
- Kept track of student laboratory paperwork, inventoried glassware and chemicals and helped clean glassware

**Intern (September 2005 – November 2005)**

CONNECTICUT STATE POLICE FORENSIC LABORATORY - Meriden, CT

- Worked on a Pyrolysis Gas Chromatography project
- Observed in the GSR testing, Forensic Biology, DNA, Questioned Documents, Black and White Photo, Latent Prints, Firearms, Trace Evidence and Color Photo Units

### Trainings

**Multijurisdictional Counterdrug Task Force Training (May 20, 2008)**

Current Drug Trends – Methuen, MA

**Multijurisdictional Counterdrug Task Force Training (May 6, 2009 - May 7, 2009)**

Courtroom Testimony – Methuen, MA

**DEA Forensic Chemist Seminar (June 21, 2010 - June 25, 2010)**

Sterling, VA



DESTRUCTION #

ID#

**To be completed by ECU personnel only**

ID#

Date \_\_\_\_\_

ECU Control #

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]

Date Analyzed: 3/24/11

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 02/23/2011

No. Analyzed:

Gross Wt.: 1.60

Net Weight: 0.80

# Tests: 6AD

• 2ATG

Prelim: ~~Penetration~~

Findings:

Negative

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASJ

No. of samples tested:                      Evidence Wt.                     

## PHYSICAL DESCRIPTION:

white chunky substance  
in 1 PB  
double bagged

Gross Wt ( ): 0.1503

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 0.0803

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - )                     

Marquis - (pink 5 mins)

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride                     

TLTA ( )                     

### OTHER TESTS

Dille -

GC +

## PRELIMINARY TEST RESULTS

RESULTS Unknown

DATE 3-18-11

## GC/MS CONFIRMATORY TEST

RESULTS Negative

MS  
OPERATOR LAG

DATE 3-24-11

ASD

DrugLab GC #2

3/19/2011 12:09:02 PM

Seq. Line : 12

Location : Vial 12

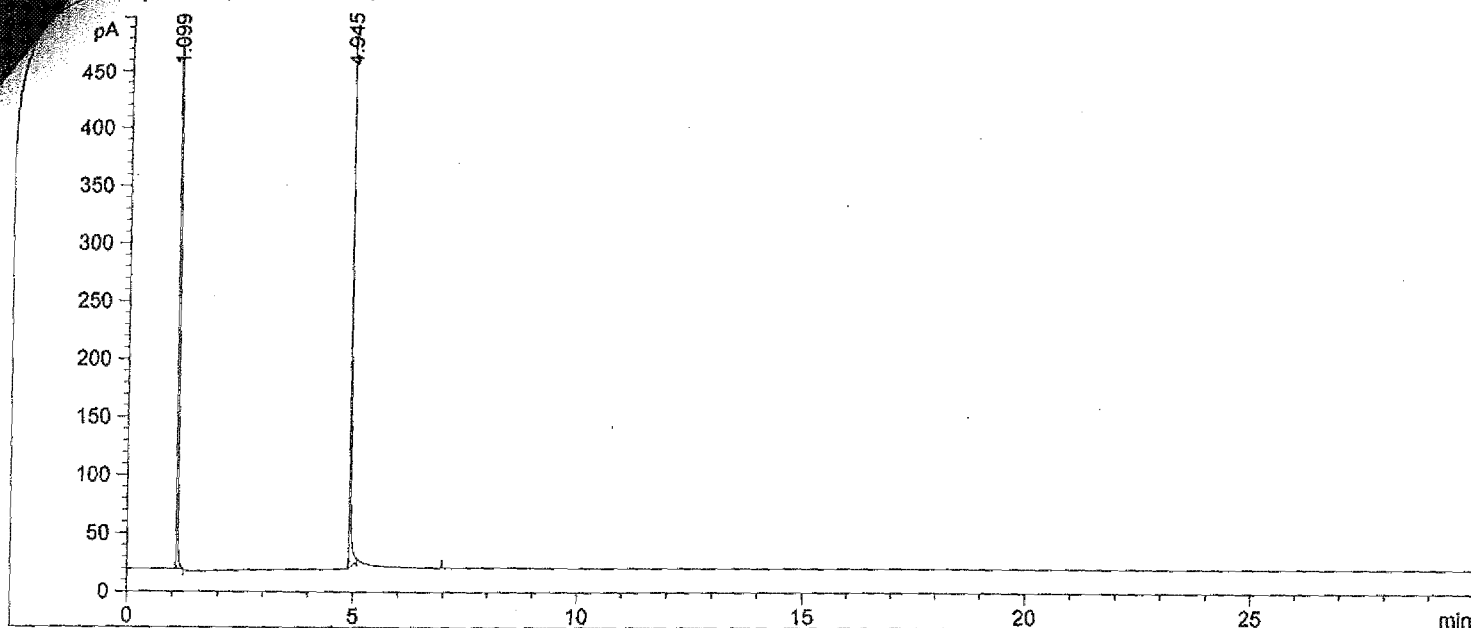
Inj : 1

Inj Volume : 1 µl

C:\CHEM32\1\METHODS\GENSCAN.M

3/9/2011 1:49:11 PM by ASD

FID1 A, (SIG1000012.D)



# Area Percent Report

Sorted By : Retention Time  
Multiplier: : 1.0000  
Dilution: : 1.0000  
Sample Amount: : 1.00000 [ng/ul] (not used in calc.)  
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

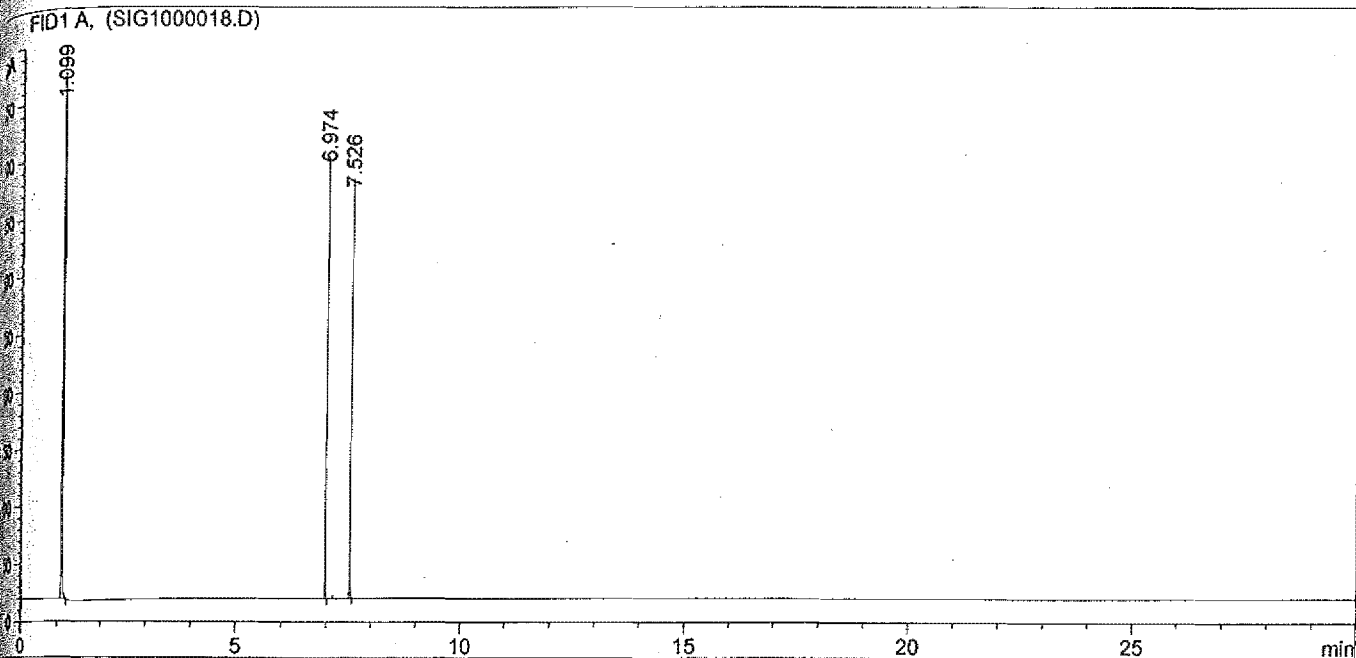
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.099	1	BB S	7.46844e4	7.50135e4	98.99921
2	4.945	1	BB	754.99036	447.50595	1.00079

Totals : 7.54394e4 7.54610e4

\*\*\* End of Report \*\*\*

COKE/CODEINE STD

```
=====
Operator   : ASD                      Seq. Line :   18
Instrument : DrugLab GC #2            Location  : Vial 18
Injection Date : 3/19/2011 3:37:46 PM Inj       :    1
                                           Inj Volume: 1 µl
                                           : C:\CHEM32\1\METHODS\GENSCAN.M
Changed    : 3/9/2011 1:49:11 PM by ASD
=====
```



```
=====
Area Percent Report
=====
```

```
By : Retention Time
Area: : 1.0000
Height: : 1.0000
Amount: : 1.00000 [ng/ul] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs
```

1: FID1 A,

RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1.099	1	BB S	7.13092e4	7.34931e4	99.21578
6.974	1	BB	284.10925	372.24286	0.39529
7.526	1	BB	279.53513	349.80136	0.38893

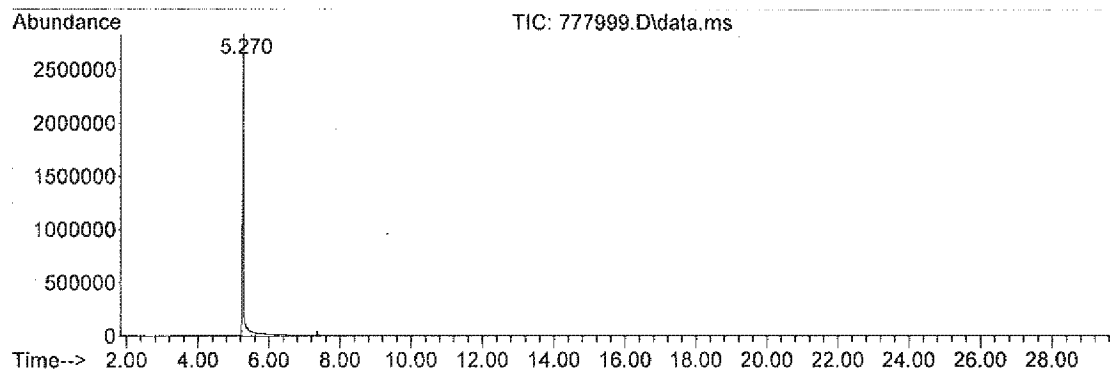
7.18728e4 7.42151e4

```
=====
*** End of Report ***
```



## Information from Data File:

File Name : I:\03\_21\_11\777999.D  
Operator : LAG  
Date Acquired : 23 Mar 2011 3:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 99  
AcquisitionMeth: SCREEN.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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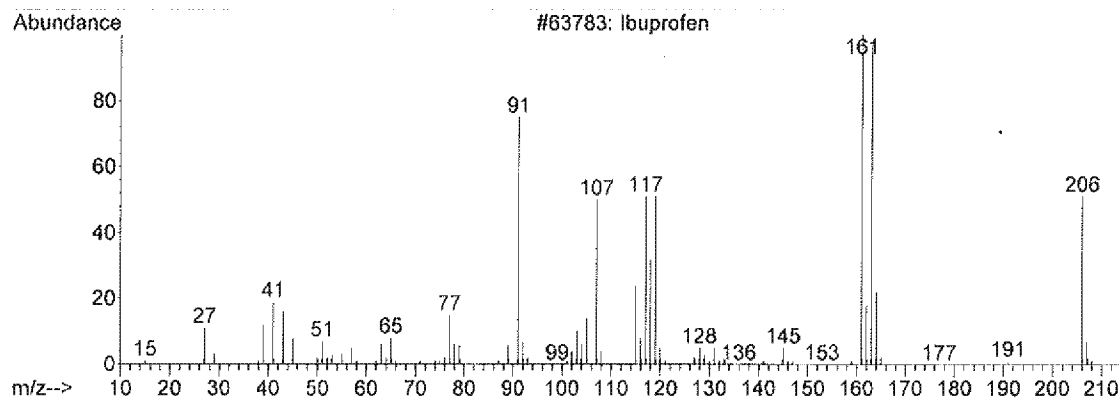
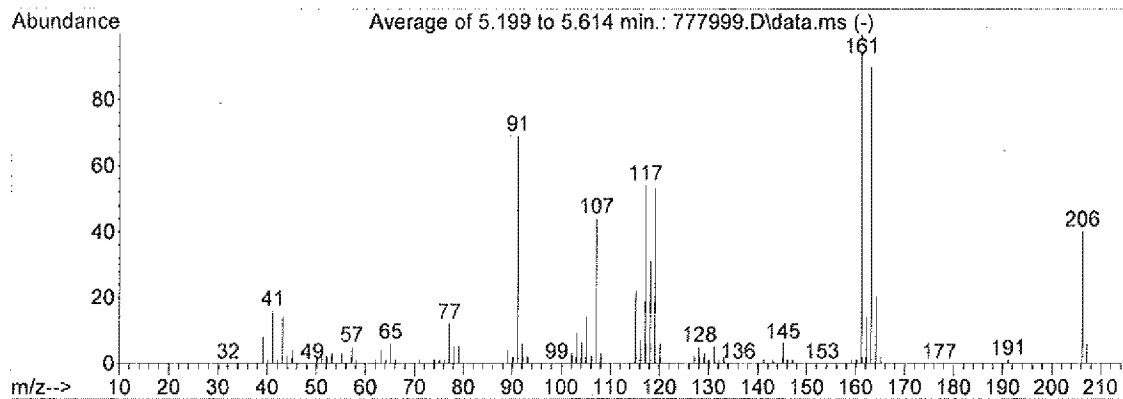
5.270	6937528	100.00	100.00
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## Information from Data File:

File Name : I:\03\_21\_11\777999.D  
Operator : LAG  
Date Acquired : 23 Mar 2011 3:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 99  
AcquisitionMeth: SCREEN.M  
Integrator : RTE

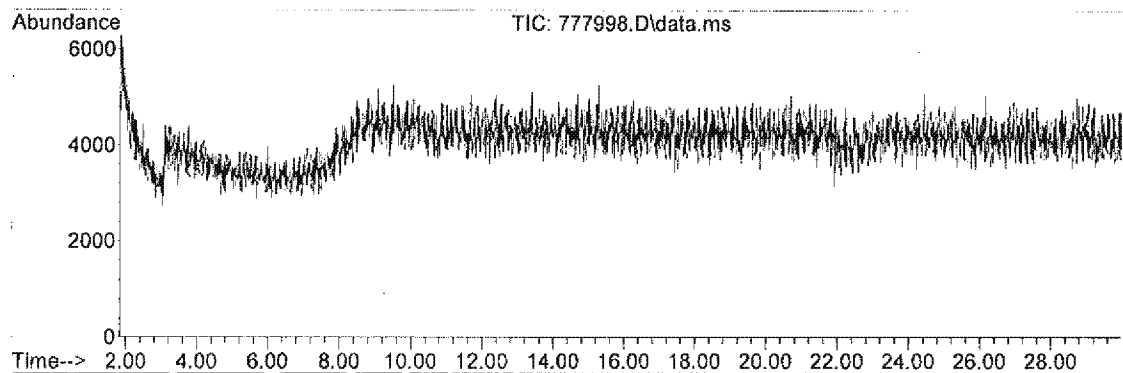
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.27	C:\Database\NIST08.L		
		Ibuprofen	015687-27-1	99
		Ibuprofen	015687-27-1	99
		Ibuprofen	015687-27-1	99



## Information from Data File:

File Name : I:\03\_21\_11\777998.D  
Operator : LAG  
Date Acquired : 23 Mar 2011 3:04  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: SCREEN.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*